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	Filing Date		2007-02-26
	First Named Inventor	Christopher Murphy	
	Art Unit	1657	
	Examiner Name	GITOMER, RALPH J	
	Attorney Docket Number	PLATY-10969	

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20	5474796		1993-05-27	BRENNAN	WHOLE DOCUMENT
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26	6858423		2000-08-10	ABBOTT ET AL	WHOLE DOCUMENT
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32	6288392		2001-09-11	ABBOTT ET AL	WHOLE DOCUMENT
33	6306659	B1	2001-10-01	PARCE ET AL	WHOLE DOCUMENT
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2	20040161800		2004-02-13	ABBOTT ET AL	WHOLE DOCUMENT
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5	20020164604		2001-08-16	ABBOTT ET AL	WHOLE DOCUMENT
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8	20020028451		2001-02-15	ABBOTT ET AL	WHOLE DOCUMENT
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10	20030127396		2003-07-10	IQBAL SIDDIQI, BREA CA	WHOLE DOCUMENT
11	20040038408	A1	2004-02-26	ABBOTT ET AL	WHOLE DOCUMENT
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12	WO 04/041061	WO		2004-05-21	PLATYPUS TECHNOLOGIES, LLC	WHOLE DOCUMENT	<input type="checkbox"/>
13	WO 00/50570	WO	A2	2000-08-31	UNIVERSITY OF BRITISH COLUMBIA	WHOLE DOCUMENT	<input type="checkbox"/>
14	WO 91/18653	WO	A2	1991-12-12	MOLECULAR DEVICES CORPORATION	WHOLE DOCUMENT	<input type="checkbox"/>
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	3	SEUNG RYEOL KIM et al. Anal. Chem "A Possible Substrate for Biomolecular Assays Based on Liquid Crystals, Analytical 2 Chemistry,"(2000) 72(19);4646-4653	<input type="checkbox"/>

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4	LAUER L. ET AL., "SPOT COMPLAINT NEURONAL NETWORKS BY STRUCTURE OPTIMIZED MICRO-CONTACT PRINTING" BIOMATERIALS, ELSEVIER SCIENCE, 2001, VOL. 22, PP. 1925-1932	<input type="checkbox"/>
5	KIKUCHI H E ET AL., "CULTURE OF BONE-MARROW-DERIVED CELLS IN MICROFABRICATED PIT ARRAYS" PROC SPIE INT SOC OPT ENG; 2001, VOL. 4265, PP 40-49	<input type="checkbox"/>
6	IWUOHA E I ET AL: REACTIVITIES OF ORGANIC PHASE BIOSENSORS 3: ELECTROCHEMICAL STUDY OF CYTOCHROME P450 CAM IMMOBILIZED IN A METHYLTRIETHOXSILANCE SOL-GEL" ELECTROANALYSIS, VHC PUBLISHERS INC. ( 2000) VOL. 12, PAGE 980	<input type="checkbox"/>
7	SKAIFE, JUSTIN G ET AL. "Quantitative Interpretation of the Optical Textures of Liquid Crystals Caused by Specific Binding of Immunoglobulins to Surface-Bound Antigens," Langmuir (2000) 16(7):3529-3536	<input type="checkbox"/>
8	SKAIFE, JUSTIN G ET AL., "QUANTITATIVE CHARACTERIZATION OF OBLIQUELY DEPOSITED SUBSTRATES OF GOLD BY ATOMIC FORCE MICROSCOPY: INFLUENCE OF SUBSTRATE TOPOGRAPHY ON ANCHORING OF LIQUID CRYSTALS" CHEMISTRY OF MATERIALS, V 11(3) 1999, PP. 612-623	<input type="checkbox"/>
9	VINAY K. GUPTA et al. "Using Droplets of Nematic Liquid Crystal To Probe the Microscopic and Mesoscopic Structure of Organic Surfaces," Langmuir 15:21 (1999) 7213-7223	<input type="checkbox"/>
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11	KLEINFELD D. et al., "Controlled Outgrowth of Dissociated Neurons on Patterned Substrates," J. Neurosci. (1998) 8:4098-120	<input type="checkbox"/>
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13	XIA Y, "Use of Controlled Reactive Spreading of Liquid Alkanethiol On the Surface of Gold To Modify the Size of Features Produced by Microcontact Printing," Whitesides, G., J. Am. Chem. Soc (1995) 117:3274-75	<input type="checkbox"/>
14	HICKMAN et al., "Rational pattern design for in vitro cellular networks using surface photochemistry," J. Vac. Sci. Technol. (1994) 12:607-16	<input type="checkbox"/>



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15	JEROME, BLANDINE, "Surface effects and anchoring in liquid crystals," Rep. Prog. Phys. (1991) 54:391-451	<input type="checkbox"/>
16	GUPTA ET AL. "Design of Surfaces for Patterned Alignment of liquid Crystals on Planar and Curved Substrates," Science (1997) 276:1533-1536	<input type="checkbox"/>
17	DRAWHORN ET AL, "Anchoring of Nematic Liquid Crystals on Self-Assembled Monolayers Formed from Alkanethiols on Semitransparent Films of Gold," J. Phys. Chem. (1995) 45:16511	<input type="checkbox"/>
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19	WAGNER et al. "Covalent Immobilization of Native Biomolecules onto Au(111) via N-Hydroxysuccinimide Ester Functionalized Self-Assembled Monolayers for Scanning Probe Microscopy," Biophys. J. (1996) 70:2052-2066	<input type="checkbox"/>
20	TARLOV et al., "UV Photopatterning of Alkanethiolate Monolayers," J. Am. Chem. Soc (1993) 115: 5305	<input type="checkbox"/>
21	KUMAR et al., "Patterned Self-Assembled Monolayers and Meso-Scale Phenomena," Acc. Chem. Res. (1995) 28: 219	<input type="checkbox"/>
22	RESLER D. P ET AL, "High-efficiency liquid-crystal optical phased-array beam steering," Opt. Lett. (1996) 21, 689	<input type="checkbox"/>
23	STERN, MARGARET B, "Binary Optics: A VLSI-based microoptics technology," Microelectron. Eng. (1996) 32, 369	<input type="checkbox"/>
24	GOTO et al., "Design of an Aberration-Free Spherical Micro Lens with a Diffractive Relief Grating Film on a Refractive Spherical Glass Substrate," Jpn. J. Appl. Phys. (1992) 31,1586	<input type="checkbox"/>
25	MAGIERA et al., "Hybrid Imaging Element - Possibilities of Aberration Correction," Soc. Photo Opt. Instrum. Eng., (1996) 2774, 204	<input type="checkbox"/>

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26	BERNARD, et al. Affinity capture of proteins from solution and their dissociation by contact printing. Nature Biotechnology. 2001; 19(9):866-869	<input type="checkbox"/>
27	RENAULT et al. "Fabricating Microarrays of Functional Proteins Using Affinity Contact Printing." Angew. Chem. Int. Ed. 2002; 41 (13):2320-2323.	<input type="checkbox"/>
28	FAST, CHEAP, PORTABLE: A New Pathogen Detection Tool. Biomedical Instrumentation & Technology.2002; 36(1): 15.	<input type="checkbox"/>
29	WOOLVERTON, et al. A liquid crystal biosensor for virus detection. Abstracts of the General Meeting of the American Society for Microbiology. 2002;102:110-111. (ABSTRACT ONLY) (1 PG.)	<input type="checkbox"/>
30	ESPINOPZA LA, Schumann KR, Luk YY, Israel BA, Abbott NL; Orientational Behavior of Thermotropic Liquid Crystals On Surfaces Presenting Electrostatically Bound Vesicular Stomatitis Virus. Langmuir (2004) March 16; 20(6):2375-85	<input type="checkbox"/>
31	TINGEY et al. "Imaging of Affinity Microcontact Printed Proteins by Using Liquid Crystals." Langmuir.2004; 20:6816-6826	<input type="checkbox"/>

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